

Asst. Prof. Ayşe ULUBAY

Personal Information

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Education Information

Doctorate, Ludwig-Maximilians-Universität München, Faculty Of Physics, Physics/Astronomy, Germany 2005 - 2009

Postgraduate, Universität Stuttgart, Faculty Of Mathematics And Physics, Department Of Physics, Germany 2001 - 2004

Undergraduate, Ege Üniversitesi, Fen Fakültesi, Astronomi Ve Uzay Bilimleri Bölümü, Turkey 1995 - 1999

Foreign Languages

English, C1 Advanced

German, A2 Elementary

Dissertations

Doctorate, Self-Gravitating Warped Disks Around Supermassive Black Holes in Galactic Nuclei, Ludwig-Maximilians-Universität München, 2009

Postgraduate, Monte Carlo Simulations for the Radiative Transfer in the Magnetospheres of Strongly Magnetized Compact Cosmic X-and Gamma-Ray Sources, Die Universität Stuttgart, 2004

Research Areas

Physics, Astronomy and Astrophysics, Astronomy and Astrophysics: Instrumentation Techniques and Observations, Natural Sciences

Academic Titles / Tasks

Assistant Professor, İstanbul University, Faculty of Science, Department of Physics, 2018 - Continues

Assistant Professor, İstanbul University, Faculty of Science, Department of Physics, 2010 - 2018

Medical Doctor, Harvard University, Center For Astrophysics, Astronomy, 2010 - 2010

Other, Ludwig-Maximilians-Universität München, Faculty Of Physics, Physics Department, 2006 - 2009

Courses

Undergraduate, 2020 - 2021

Physics II, Undergraduate, 2019 - 2020

Reading and Translation in Science, Undergraduate, 2019 - 2020, 2020 - 2021

İleri Fizik Uygulamaları II, Undergraduate, 2019 - 2020

Calculus-I, Undergraduate, 2020 - 2021
Undergraduate, 2019 - 2020, 2020 - 2021
Physics I, Undergraduate, 2019 - 2020
Dynamics of Astrophysical Discs, Doctorate, 2017 - 2018
Diferansiyel Denklemler, Undergraduate, 2016 - 2017, 2017 - 2018
Matematik 2, Undergraduate, 2016 - 2017, 2017 - 2018
İleri Fizik uygulamaları, Undergraduate, 2012 - 2013, 2015 - 2016, 2016 - 2017, 2017 - 2018
Physics 1, Undergraduate, 2018 - 2019
Galaxy II, Doctorate, 2016 - 2017
Num. Meth. In Physics & Applications II, Doctorate, 2016 - 2017
Galaxy I, Doctorate, 2016 - 2017
Galaxy III, Doctorate, 2016 - 2017
Matematik 1, Undergraduate, 2016 - 2017
Genel Fizik 2, Undergraduate, 2015 - 2016
Num. Meth. In Physics & Applications I, Doctorate, 2016 - 2017
Fizik 1, Undergraduate, 2016 - 2017
Bilgisayar Programlama II, Undergraduate, 2012 - 2013
Bilgisayar Programlama I, Undergraduate, 2012 - 2013

Advising Theses

ULUBAY A., Gökada Merkezi'ndeki Nükleer Gaz Disk ve Genç Yıldız Disklerinin Modellenmesi, Postgraduate, B.Ekinci(Student), 2014

Jury Memberships

Doctoral Examination, Doctoral Examination, Sabancı Üniversitesi, February, 2021
Doctorate, Doctorate, Mimar Sinan Güzel Sanatlar Üniversitesi, February, 2021
Post Graduate, Post Graduate, İstanbul Teknik Üniversitesi, July, 2020
Post Graduate, Post Graduate, Ege Üniversitesi, August, 2019
Doctorate, Doktora tez savunma jürisi, Ege Üniversitesi, June, 2017
Post Graduate, Yüksek lisans tez savunma jürisi, Trakya Üniversitesi, November, 2015
Post Graduate, Yüksek lisans tez savunma jürisi, Trakya Üniversitesi, November, 2015

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Time evolution simulations for the galactic centre circumnuclear disc**
Ekinci B., ULUBAY A.
Astrophysics and Space Science, vol.366, no.1, 2021 (Journal Indexed in SCI Expanded)
- II. **Magnetorotational instability in diamagnetic, misaligned protostellar discs**
DEVLEN E., Ulubay A., PEKÜNLÜ E.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY, vol.491, no.4, pp.5481-5488, 2020 (Journal Indexed in SCI)
- III. **On the possibility of a warped disc origin of the inclined stellar discs at the Galactic Centre**
Ulubay-Siddiki A., Bartko H., Gerhard O.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY, vol.428, no.3, pp.1986-2000, 2013 (Journal Indexed in SCI)
- IV. **Self-gravitating warped discs around supermassive black holes**

Ulubay-Siddiki A., Gerhard O., Arnaboldi M.

MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY, vol.398, no.2, pp.535-547, 2009 (Journal Indexed in SCI)

Refereed Congress / Symposium Publications in Proceedings

- I. **Counter-rotating, Self-gravitating Warped Discs in Galactic Nuclei**
Ulubay A.
5. Uluslararası Akdeniz Bilim ve Mühendislik Kongresi , Antalya, Turkey, 21 - 23 October 2020, pp.449-453
- II. **On the Possibility of a Warped Disk Origin of the Inclined Stellar Disks at the Galactic Center**
ULUBAY SİDDİKİ A., Hendrik B.
The Central Kiloparsec in Galactic Nuclei Astronomy at High Angular Resolution 2011, Germany, 1 - 04 July 2012, vol.372, pp.12017
- III. **Self-Gravitating Warped Disks Around Black Holes**
ULUBAY SİDDİKİ A., Arnaboldi M., Gerhard O.
Microquasars and Beyond, Turkey, 1 - 04 December 2008, pp.84
- IV. Ulubay A., Gerhard O., Arnaboldi M.
XVI. ULUSAL ASTRONOMİ KONGRESİ ve V. ULUSAL ÖĞRENCİ ASTRONOMİ KONGRESİ, Çanakkale, Turkey, 8 - 12 September 2008, pp.21-29
- V. **Süper Kütleli Karadelikler Etrafında Eğrilikli Diskler**
ULUBAY SİDDİKİ A., Gerhard O., Arnaboldi M.
XV. Ulusal Astronomi Kongresi ve IV. Ulusal Öğrenci Astronomi Kongresi, İstanbul, Turkey, 1 - 04 September 2007, vol.2, pp.699-708
- VI. **Self-gravitating warped disks around nuclear black holes**
ULUBAY SİDDİKİ A., Gerhard O., Arnaboldi M.
Black Holes from Stars to Galaxies -- Across the Range of Masses - IAU Symposium #238, Czech Republic, 1 - 04 April 2007, vol.238, pp.467-468

Other Publications

- I. **Astronomi-Bir Bakışta Evren/Astronomy the Universe at a Glance (yazarlar: E. Chaisson, S. McMillan) kitap çevirisi**
Yıldız M., İnam S. Ç. , ULUBAY A.
Other, pp.310, 2016

Supported Projects

- ULUBAY A., TUBITAK Project, Güneş Tacının Isıtılması Ve Güneş Rüzgarının İvmelendirilmesinde Mhd Dalgalarının Rolü, 2019 - Continues
- ULUBAY A., TUBITAK Project, Gökada Merkezi'ndeki Merkezi Gaz Disk Ve Genç Yıldız Disklerinin Modellenmesi, 2013 - 2015
- ULUBAY A., Project Supported by Higher Education Institutions, Simulations of Warped Megamaser Disks in Galactic Nuclei, 2013 - 2013
- ULUBAY A., Project Supported by Higher Education Institutions, Circinus Gökadasındaki Maser Disk İçin Öz Çekimsel Eğrilikli Disk Modeli, 2011 - 2013
- ULUBAY A., Project Supported by Higher Education Institutions, On the Possibility of a Warped Disk Origin of the Inclined Stellar Disks at the Galactic Center, 2011 - 2011

Memberships / Tasks in Scientific Organizations

Uluslararası Astronomi Birliđi, Member, 2015 - Continues
Avrupa Astronomi Derneđi, Member, 2015 - Continues
Türk Astronomi Derneđi, Member, 2012 - Continues

Scientific Refereeing

Project Supported by Higher Education Institutions, June 2017
TUBITAK Project, June 2012

Tasks In Event Organizations

Ulubay A., Ertan Ü., Devlen E., Ekşi K. Y. , Şaşmaz S., Işık E., Hakkı Ögelman Yaz Okulu II - Astrofizikte Modelleme: Güneş'ten Gökada Merkezlerine , Science / Art Camp or Summer School Organization, İstanbul, Turkey, Ağustos 2019
Ulubay A., Çalışkan Ş., Devlen E., Erkut M. H. , Ertan Ü., Şaşmaz S., Feza Gürsey Yaz Okulları 2017: Astrofiziksel Diskler, Science / Art Camp or Summer School Organization, İstanbul, Turkey, Ağustos 2017
Ulubay A., Devlen E., Pekünlü E. R. , Astrofizikte Manyetik ve Hidrodinamik Süreçler I. Çalıştayı, Workshop Organization, İzmir, Turkey, Şubat 2010

Edit Congress and Symposium Activities

Yüksek Enerji Fiziđi, Astrofizik ve Kozmoloji Çalıştayı – 2021, Invited Speaker, İstanbul, Turkey, 2021
Yüksek Enerji Fiziđi, Astrofizik ve Kozmoloji Çalıştayı – 2018, Attendee, Turkey, 2018
European Week of Astronomy and Space Science, Attendee, Santa Cruz De Tenerife, Spain, 2015
19.Ulusal Astronomi Kongresi ve 8. Ulusal Öğrenci Astronomi Kongresi, Attendee, Ankara, Turkey, 2015
Gas Dynamics and Star Formation in the Extreme Environment of Galactic Nuclei, Attendee, Tegernsee, Germany, 2013
XVIII. ULUSAL ASTRONOMİ ve UZAY BİLİMLERİ KONGRESİ VII. ULUSAL ÖĞRENCİ ASTRONOMİ ve UZAY BİLİMLERİ KONGRESİ, Attendee, Malatya, Turkey, 2012
Black Holes by the Black Sea, Attendee, İstanbul, Turkey, 2012
Astronomy at High Angular Resolution, Attendee, Bad Honnef, Germany, 2011
Dynamics from the Galactic Center to the Milky Way Halo, Attendee, Boston, United States Of America, 2010
Physics of Galactic Nuclei, Attendee, Tegernsee, Germany, 2009
Active Galactic Nuclei at the highest angular resolution: theory and observations, Attendee, Torun, Poland, 2007
N-Body Dynamics in Near Keplerian Potentials, Attendee, Leiden, Netherlands, 2007
Galactic Center Workshop, Attendee, Tegernsee, Germany, 2007
IAU Sempozyumu/238: Black Holes - From Stars to Galaxies, Attendee, Prag, Czech Republic, 2006

Citations

Total Citations (WOS):22
h-index (WOS):2

Invited Talks

GÖKADA MERKEZLERİNDEKİ YÜKSEK KÜTLELİ EĞRİ DİSKLERİN EVRİMİ, Workshop, İstanbul Üniversitesi, Turkey, February 2021

Scholarships

Doktora Arařtırma Bursu, Other International Organizations, 2006 - 2009

Doktora Arařtırma Bursu, Other International Organizations, 2005 - 2005

Doktora Bursu, Official Institutions of Foreign Countries, 2004 - 2005